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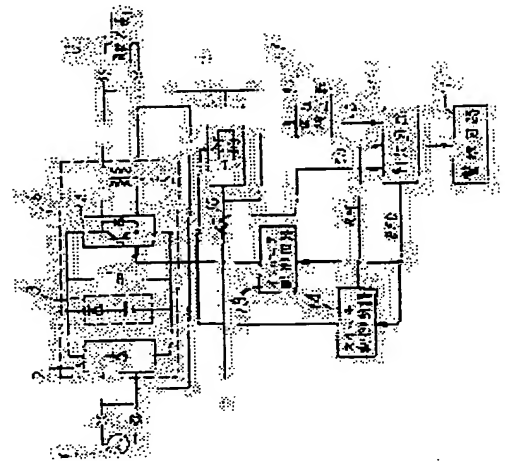
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## (54) UNINTERRUPTIBLE POWER SUPPLY EQUIPMENT

## (57)Abstract:

PURPOSE: To protect a CVCF(contact voltage, constant frequency power supply equipment), by arranging the CVCF for performing A/D conversion of AC power thereafter performing D/A conversion in parallel with an AC bypass circuit, thereby disabling switching to the CVCF even upon occurrence of abnormality during operation of the bypass circuit.

CONSTITUTION: AC power is passed from an AC power source 1 through a CVCF 6, then voltage transformation is made and the transformed power is fed to a load 8. A bypass circuit 7 where a thyristor is connected in reverse parallel is connected in parallel with the CVCF 6. Normally, the CVCF 6 is operated and the bypass circuit 7 is stopped, thus feeding power to the load 8. When the CVCF 6 is judged to be faulty based on an output VD from a voltage detector 9 and an output CD from CT 10, a signal BFD is outputted to stop an inverter 4 through an inverter control circuit 13, while a switch control circuit 14 turns the bypass circuit 7 ON and produces an alarm 12. When the bypass circuit 7 is judged to be faulty during operation, operation thereof is stopped to disable switching to the CVCF 6 and produce an alarm 12. By such arrangement, the CVCF 6 is protected.



## LEGAL STATUS

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